

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Quali-Sel, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXHIBIT OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Mission'



In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 14th day of June in
the year of our Lord one thousand nine
hundred and seventy-nine

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

[Signature]

Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY		1b. VARIETY NAME MISSION		FOR OFFICIAL USE ONLY PV NUMBER 7800084	
2. KIND NAME LETTUCE		3. GENUS AND SPECIES NAME LACTUCA SATIVA L.		FILING DATE 6-6-78	TIME 2:30 A.M. P.M.
4. FAMILY NAME (BOTANICAL) COMPOSITAE		5. DATE OF DETERMINATION MAY 1, 1977		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 6-6-78 5-30-79
6. NAME OF APPLICANT(S) QUALI-SEL, INC.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 11 W. Laurel Drive Suite 125 Salinas, California 93906		8. TELEPHONE AREA CODE AND NUMBER (408)443-1013	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) CORPORATION		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION CALIFORNIA		11. DATE OF INCORPORATION March 1, 1972	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Quali-Sel, Inc. 11 W. Laurel Drive Suite 125 Salinas, California 93906					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? (name of countries and dates.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☐ YES ☒ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

May 26, 1978

(DATE)

(SIGNATURE OF APPLICANT)

1

(DATE)

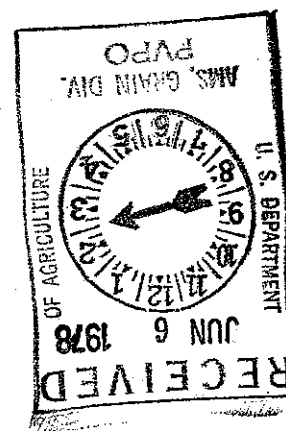
(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.





QUALI-SEL, INC.

7800084

VARIETY: MISSION

EXHIBIT A

Origin and Breeding History of the Variety

1. MISSION originated from a hand pollinated cross between Great Lakes B Strain and Valtemp. The cross was made by Quali-Sel's personnel in 1969.
2. Trial plantings were made in 1971 to allow for individual plant selection work. This procedure continued thru 1977 with the selection based on head size, bolting tolerance, texture, color and heading abilities.
3. The procedure involved trial plantings and evaluations at several locations to obtain the desired plant type. The final selection was made in the Salinas Valley.
4. MISSION is genetically uniform and free of any distinct variations.



QUALI-SEL, INC.

7800084

VARIETY: MISSION

EXHIBIT B

DATA INDICATIVE OF NOVELTY

MISSION most closely resembles Great Lakes Mesa 659. The distinguishing features of MISSION compared to Great Lakes Mesa 659 are:

1. The wrapper leaf margins are more frilly.
2. Earlier in head maturity.
3. Leaf petioles are not as feathery.
4. Has more bolt tolerance.
5. The seed color is black.

7800084



QUALI-SEL SEEDS

A Subsidiary of Quali-Sel, Inc.

SALINAS, CALIFORNIA • ~~XXXXXXXXXX~~ • TELEPHONE (408) 422-6489
1143 MADISON LANE

April 2, 1979

United States Department of Agriculture
Plant Variety Protection Office
National Agriculture Library
Beltsville, Maryland 20705

Attn: Mr. H.H. Fisher

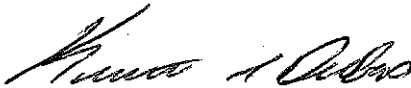
SUBJECT: Lettuce Application No. 7800084, 'Mission'

Enclosed is some additional data on the Variety Mission to distinguish it from Great Lakes Mesa 659. The core diameter, core length and head circumference is based on 20 plants.

The maturity of Mission compared to Great Lakes Mesa 659 is 5-7 days earlier. The color values based on the Royal Horticultural Society Colour Chart are 145A for Mission and 144A for Great Lakes Mesa 659.

Please notify me if any additional data is needed.

Sincerely yours,



Kenneth L. Dubas
Research Director

KLD/aa

Attachment



7800084


	<u>Core</u>	<u>Diameter</u>	<u>Core</u>	<u>Length</u>	<u>Head</u>	<u>Circumference</u>
	Mission	G.L. Mesa 659	Mission	G.L. Mesa 659	Mission	G.L. Mesa 659
1	3.0. cm	3.2 cm	2.6 cm	2.5 cm	44.2 cm	44.0 cm
2	3.2	3.7	3.0	2.7	42.1	51.0
3	3.2	3.7	2.7	2.8	44.0	47.0
4	2.8	3.8	2.1	3.8	43.5	50.0
5	3.1	3.6	2.1	2.8	47.0	50.7
6	3.0	3.7	2.4	3.8	46.0	49.6
7	3.1	3.2	2.4	2.6	46.0	42.1
8	3.0	3.5	2.7	2.8	46.0	47.7
9	3.5	4.0	3.0	2.6	46.0	48.6
10	3.5	4.0	2.0	3.0	45.8	51.1
11	3.5	4.0	2.3	2.6	46.0	50.2
12	3.0	4.0	2.3	2.5	45.5	50.2
13	3.5	3.6	2.5	3.4	46.2	47.6
14	3.2	3.9	3.0	3.0	47.5	49.0
15	3.0	4.0	2.7	2.6	45.0	46.5
16	3.0	3.9	2.5	3.0	44.0	46.3
17	2.9	3.4	2.1	2.8	45.5	46.0
18	3.2	3.9	2.4	4.0	41.0	48.0
19	3.4	3.3	2.7	3.2	44.9	43.7
20	3.2	4.0	2.3	2.3	49.5	46.7
AVE.	3.2 cm	3.7 cm	2.4 cm	3.0 cm	45.3 cm	47.8 cm

OBJECTIVE DESCRIPTION OF VARIETY
(LETTUCE)

INSTRUCTIONS: See reverse.

NAME OF APPLICANT(S) ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
	PVPO NUMBER 297-1-7800084
	VARIETY NAME OR TEMPORARY DESIGNATION MISSION

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. PLANT TYPE: <input type="text" value="4"/> <input type="text" value="2"/> 10 = CUTTING (Leaf) 20 = STALK 50 = BUTTERHEAD 60 = LATIN 70 = OTHER (Specify) _____		30 = COS 31 = SELF-CLOSING GROUP 32 = LOOSE-CLOSING GROUP	40 = CRISPHEAD 41 = IMPERIAL GROUP 42 = GREAT LAKES GROUP 43 = VANGUARD 44 = NEW YORK GROUP
2. SEED COLOR: <input type="text" value="2"/> 1 = WHITE 2 = BLACK 3 = YELLOW		3. ANTHOCYANIN: <input type="text" value="1"/> 1 = ABSENT 2 = PRESENT	
4. LEAF CONTAINING ANTHOCYANIN: <input type="text" value="4"/> 1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify) _____			
5. LEAF SURFACE TEXTURE: <input type="text" value="2"/> 1 = SMOOTH 2 = BLISTERED		6. LEAF SURFACE REFLECTANCE: <input type="text" value="1"/> 1 = DULL 2 = GLOSSY 3 = OTHER (Specify) _____	
7. LEAF MARGIN: <input type="text" value="3"/> 1 = STRAIGHT 2 = WAVY 3 = CURLED		8. LEAF SHAPE: <input type="text" value="1"/> 1 = ENTIRE 2 = DENTATE 3 = INCISED 4 = DEEPLY INCISED 5 = OTHER (Specify) _____	
9. LEAF COLOR: (See reverse.) <input type="text" value="4"/> 1 = RED 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN 6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN		10. HEADS: <input type="text" value="1"/> 1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE 4 = POINTED 5 = NON-HEADING	
11. PLANT SIZE: (See reverse.) <input type="text" value="2"/> 1 = SMALL 2 = MEDIUM 3 = LARGE		12. CULTURE: <input type="text" value="1"/> 1 = SUMMER CROP 2 = WINTER CROP 3 = NOT SPECIFIC 4 = UNDER GLASS 5 = OTHER (Specify) _____	
13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e. <input type="text" value="0"/> <input type="text" value="2"/>)) <input type="text" value="6"/> <input type="text" value="4"/> mm. LENGTH OF SEEDLING <input type="text" value="2"/> <input type="text" value="9"/> mm. LENGTH OF COTYLEDON <input type="text" value="0"/> <input type="text" value="9"/> mm. WIDTH OF COTYLEDON			
14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance.) <input type="text" value="0"/> 1 = TIPBURN <input type="text" value="0"/> 2 = MOSAIC <input type="text" value="0"/> 3 = DAMPING OFF <input type="text" value="0"/> 4 = DOWNY MILDEW <input type="text" value="0"/> 5 = SCLEROTINIA ROT <input type="text" value="0"/> 6 = BROWN BLIGHT <input type="text" value="0"/> 7 = BIG VEIN <input type="text" value="0"/> 8 = OTHER (Specify) _____			
15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.) 			

7800084

FORM GR-471 (REVERSE)

16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER		NAME OF VARIETY				
Leaf color		Great Lakes Mesa 659				
Leaf pigmentation		Great Lakes Mesa 659				
Leaf shape		Great Lakes Mesa 659				
Plant size		Great Lakes Mesa 659				
Head size		Great Lakes Mesa 659				
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted			Approx. 85	Salinas	82	San Joaquin Valley, CA
Similar			Approx. 91	Salinas	65	San Joaquin Valley, CA
Name of similar variety →			Montemar		Salinas	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Institut voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

<u>Color</u>	<u>Variety</u>
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrine	Creole	Deer Tongue



QUALI-SEL, INC.

7800084

VARIETY: MISSION

EXHIBIT D

BOTANICAL DESCRIPTION OF THE VARIETY

Annual: A crisphead variety with a large sized frame. The wrapper leaves are lightly savoyed with a medium shade of green color.

The head is spherical with medium thick leaves. The butt is medium smooth. The core diameter is large but very short. The leaf petioles are medium smooth.

MISSION is best adapted to the warm summer months of the Salinas Valley of California.

The seed color is black.



United States
Department of
Agriculture

Agricultural
Research
Service

Northern Plains Area
National Seed
Storage Laboratory

1111 South Mason Street
Fort Collins, CO 80521-4500
Telephone: 970 495-3200
Fax: 970 221-1427

February 14, 1997

Marian R. Minnifield, Secretary
Plant Variety Protection Office
NAL Building, Room 500
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351

Subject: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number
101862	01	PVP 7800029
102219	01	PVP 7800010
102675	01	PVP 7800088
102676	01	PVP 7400011
103506	01	PVP 7800084 ✓
103507	01	PVP 7900016
103508	01	PVP 7800082
103840	01	PVP 7900017
103842	01	PVP 7900067
104549	01	PVP 7700106
104551	01	PVP 7100046
314988	01	PVP 9500276
101863	01	PVP 7800026
102222	01	PVP 7800078
102226	01	PVP 7800091
101854	01	PVP 7200134
102214	01	PVP 7605014
102216	01	PVP 7900011
102217	01	PVP 7800095
102218	01	PVP 7800093
102220	01	PVP 7800097
102221	01	PVP 7800042

97 FEB 25 11:06

USDA



United States
Department of
Agriculture

Agricultural
Research
Service

Northern Plains Area
National Seed
Storage Laboratory

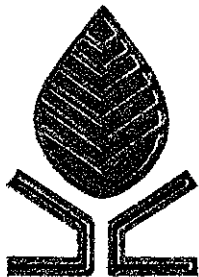
1111 South Mason Street
Fort Collins, CO 80521-4500
Telephone: 970 495-3200
Fax: 970 221-1427

102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

97 FEB 25 11:06

USDA

Sincerely,



Bruce Church, Inc.

November 8, 1988

United States Department of Agriculture
Agricultural Marketing Service
Warehouse and Seed Division - Plant Variety Protection Office
National Agricultural Library Bldg., Room 500
10301 Baltimore Boulevard
Beltsville, Maryland 20705

TO WHOM THIS MAY CONCERN:

Quali-Sel Seed has gone out of business, effective December 7, 1987. Would you please send future correspondence to Vic Heintzberger at:

Vic Heintzberger
Manager, Research & Development
Bruce Church, Inc.
P. O. Box 80599
Salinas, CA 93912-0599

Thank you.

Sincerely,

Jean Polk

Jean Polk
Bruce Church, Inc.

2-8-89

*Active Certificates
listed as Quali-Sel.*

7400019

7400024

7600014

7800082

7800084

8000134

8200023

